# Operations Report

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CDF Weekly Meeting

# This Week's Stores

| Date | Store | Duration (h) | Inst Lum (initial) | Int Lum (delivered) | Int Lum (live) | ε |
|------|-------|--------------|--------------------|--------------------|--------------| ---|
| Fr 4/11 | 2420 | 18.3 | 28.0e30 | 1047.2 | 866.8 | 82.8% |
| Sa 4/12 | 2422 | 19.5 | 30.7e30 | 1334.7 | 1202.3 | 90.1% |
| Su 4/13 | 2424 | 18.1 | 36.2e30 | 1486.7 | 1170.2 | 78.7% |
| Mo 4/14 | 2426 | 1.9 | 38.2e30 | 231.0 | 169.7 | 73.5% |
| Tu 4/15 | 2433 | 10.8 | 35.0e30 | 933.9 | 827.2 | 88.6% |
| Th 4/17 | 2436 | - | 33.5e30 | - | - | - |

# Store comments

- **Store 2420 (82.8%)**
  - Downtime due mainly to high-loss storms, TeV tuned them away
  - Correlated to a wandering magnet current a few days later
- **Store 2422 (90.1%)**
  - Lost first 35 min due to L3 problems (pilot error), then smooth running
  - Protection added to RC to prevent similar errors in future
- **Store 2424 (78.7%)**
  - Downtime from RTServer problems, COT SL8 trips
- **Store 2426 (73.5%)**
  - Short store; BQ9 tripped, caused quench
- **Store 2433 (88.6%)**
  - SL8 trips, SVX PS problems, then store aborted by RF system
- **Store 2436 (ongoing)**
  - RECORD EFFICIENCY "SHOT SETUP W/ SILICON" SHIFT (93.4%)

# Accelerator status

- **Good:**
  - Quick (~2.5 hour) turnaround of stores over the weekend
  - Low losses at CDF

- **Bad:**
  - Not-so-quick turnaround this week (abnormal store terminations)
  - Stacking problems
    - ORBUMP magnet --- "declared fixed (for now)"

- **Overall:**
  - Have been shooting from 150 mA stacks when practical
  - Lumis in the mid-30s
    - Good proton load w/ not-so-good pbar load and vice versa

# CDF Issues

- **COT SL8 trips**
  - Have isolated the wire, reduced HV on its layer/quadrant by 50 V
    - Overall data quality still OK
  - Need two-shift access to disable the wire
  - Can we limp along until the access presents itself?
- **b0musc00**
  - Fails fairly consistently at run-start, requires reboot
  - Investigation ongoing; TDCs more-or-less exonerated
- **Beginning-of-store deadtime**
  - Seeing somewhat high (~3-4%) average deadtimes
  - CSL getting choked despite reasonable L3A rate
  - Under investigation
- **Silicon FTM buffing continues**
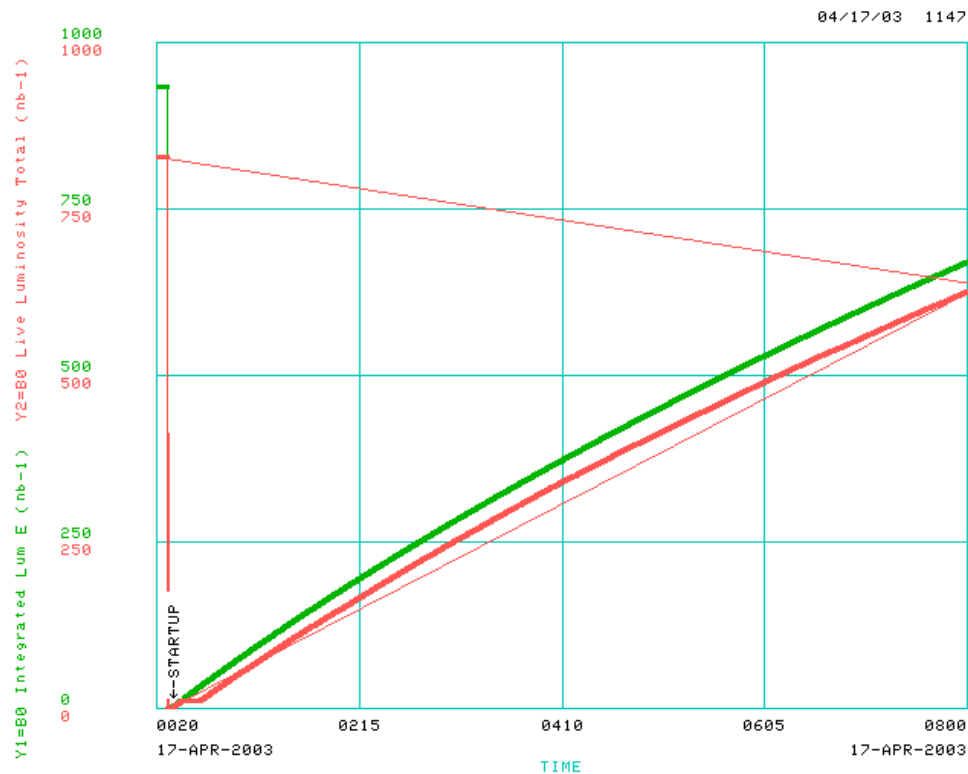  - 25 left to go! (out of 58)

# Conclusions/Plan

- Upcoming tests:
  - Diffractive triggers
  - Inclusion of L3SummaryObject in event record

- Outstanding issues:
  - COT SL8
  - b0musc00
  - CSL

- In principle, this is a "stack-and-store" week…….

# Goal

More shifts like this…



Kevin McF., Gilles De L., Maria S., Guillelmo G-C., Mat M., Daniel J.